

112.3 Glasses (powder and solid forms)

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PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	81a	89	92	93a	165a	620	621	1411	1412	1413	1830	1831	1834	2696
Type	Glass Sand	Lead-Barium	Low-Lead Boron Soda-Lime Powder	High-Boron Soda-Lime Powder	Glass Sand (low Iron)	Soda-Lime, Flat	Lime, Container	Soft Boro-silicate	Multi Component	Glass Sand (high alumina)	Soda-Lime, Float	Soda-Lime, Sheet	Ore Glass	Fused Silica Fume
Unit Size	75 g	45 g	45 g	wafer 32 mm D x 6 mm	3 platelets 75 g	3 disks 35 x 35 x 3 mm	10 platelets D x 5 mm	8 platelets 32 x 32 x 3 mm	75 g	3 platelets 32 x 32 x 6 mm	3 platelets 37 x 37 x 3 mm	disk 30 mm D x 3 mm	70g	
Component	(Concentrations are in mass fractions, in %, unless noted by an asterisk for mg/kg)													
SiO ₂	65.35	(75.0)	80.8		72.08	71.13	58.04	42.38	82.77	73.07	73.08	Si 20.19	95.61	
PbO		17.50						4.40						
Al ₂ O ₃	0.66	0.18		2.28	0.059	1.80	2.76	5.68	7.52	9.90	0.12	1.21	Al 20.71	0.2080
FeO				0.016							0.032	0.025		
Fe ₂ O ₃	0.082	0.049		0.028	0.012	0.043	0.040	0.050	(0.031)	0.24	0.121	0.087	Fe 0.32	(0.005)
ZnO			(0.2)				3.85	4.48						0.051
CdO								4.38						
MnO			0.088											
Mn ₂ O ₃														0.0299
TiO ₂	0.12	0.01		0.014	0.011	0.018	0.014	0.02			0.011	0.019	Ti 1.11	
ZrO ₂	0.034	0.005		0.042	0.006		0.007						Zr (0.047)	

CaO	0.21	(8.3)	0.01	7.11	10.71	2.18	4.53	0.74	8.56	8.20	Ca 0.095	0.426
BaO	1.40				0.12	5.00	4.67	0.12			Ba 0.062	
Li ₂ O							(4.50)				Li (4.6)	
MgO	0.03	(0.1)	0.005	3.69	0.27	0.33	(4.69)	0.06	3.90	3.51	Mg 0.088	0.235
K ₂ O	8.40	(0.6)	0.014	0.41	2.01	2.97	4.14	3.94	0.04	0.33	K 0.42	0.655
Na ₂ O	5.70	(13.1)	3.98	14.39	12.74	10.14	4.69	1.75	13.75	13.32	Na (0.14)	(0.129)
B ₂ O ₃		0.70	12.56			10.94	4.53				B (1.1)	
P ₂ O ₅	0.23										P 0.152	(0.0863)
As ₂ O ₅	0.36											
As ₂ O ₃	0.03			0.056	0.030							
SO ₃	0.03			0.28	0.13				0.26	0.25		
Cl	0.05		0.060									
Cr											(0.02)	
SrO					0.09		4.55				Sr 0.153	
F												
Cr ₂ O ₃	46*		(1*)									
Loss on Ignition	0.32	(0.42)										(2.114)

Values in parentheses are not certified and are given for information only.